



## COMMITTEE ON CHEMISTRY & INDUSTRY SAFETY TRAINING PROGRAM

Safety Training Workshop July 8<sup>th</sup> 2019

*“Celebrating 20 Years of IUPAC COCI Safety Training”*

### Biographies

#### Dr. Mark Cesa (FACS), USA

Mark C. Cesa was 2014-2015 President of the International Union of Pure and Applied Chemistry, IUPAC. He has been Chair of the IUPAC Committee on Chemistry and Industry and of the U. S. National Committee for IUPAC. After his visit to COCI as a Young Observer at the 1997 IUPAC General Assembly, he became Coordinator of the IUPAC Safety Training Program from 1998-2011, a capacity building program for chemists in the developing world.

Dr. Cesa was a member of the National Academies Committee on Promoting Safe and Secure Chemical Management in Developing Countries. He has held leadership positions in the American Chemical Society at the local and national levels, and he was made an American Chemical Society Fellow in 2012.

Dr. Cesa is a physical organic and organometallic chemist with research interests in homogeneous and heterogeneous catalysis and organic reaction kinetics and mechanisms. Before retiring at the end of 2015, he directed research in the chemical industry on new catalytic reactions, polymerization, chemical process optimization, molecular and kinetic modeling of catalytic reactions, and safety and environmental protection in chemical manufacture and use.

Dr. Cesa earned an A. B. in chemistry from Princeton University and M.S. and Ph.D. in organic chemistry from the University of Wisconsin-Madison, and he has taught courses in organic chemistry and catalysis at the university level.



#### Dr. Bernard West (PEng.), Canada

Bernard West holds BSc and PhD degrees in chemical engineering from the University of Manchester - UMIST, where he also taught for 6 years. He was CEO of CANSOLV Technologies of Montreal, President and COO, Canada Colors and Chemicals Limited. Prior to that, he had 30 years of experience in the chemical industry with Rhone-Poulenc, Imperial Oil [Esso] and Polymer Corporation.

Bernard has also been very active in industry associations and industry-government bodies. He was Chair of the Board of the Canada's Chemical Producers Association, Chair of The Chemical Institute of Canada, Chair of the Society of Chemical Industry - Canadian Section, Member of the Board of the National Association of Chemical Distributors (Washington, D.C.) He Chaired the Board of Ontario BioAuto Council. Bernard Chaired the IUPAC Committee on Chemistry and Industry and was Coordinator the IUPAC Safety Training Programme from 2012-2017. He was a member of the board of Sulco Chemicals Ltd, Elmira.

Bernard is currently Chair of the Board of Haygain Ltd. Lambourn UK, President of Westworks Consulting Limited, Toronto. Co-Vice-Chair and Founding Co-Chair of the BioIndustrial Innovation Canada / Sustainable Chemistry Alliance, Sarnia and Co-Chair of the Canadian Green Chemistry and Engineering Network, Ottawa. He is also a member of the Board of Life Sciences Ontario, Toronto and a member of the Board of the Centre for Research and Innovation in the Bio-Economy [CRIBE], Thunder Bay.



## **Dr. Austin Ochieng Aluoch, Kenya**

Austin Ochieng Aluoch, received his doctorate degree in analytical chemistry from the State University of New York in 2007. He then joined the University of Nairobi, Department of Chemistry as a lecturer from 2007 - 2011. He is a Senior Lecturer of Chemistry at the Technical University of Kenya. Dr. Aluoch's research interests among others include the development of biosensors for the detection of Biological pathogens. He has several publications in the field of biosensors including a review for the Department of Homeland Security (USA) on "Guide for the Selection of Biological Agent Detection Equipment for Emergency First Responders."



Austin is a member and current National secretary of the Kenya Chemical Society (KCS) where he is spearheading chemical safety and security in Kenya. He is a member of the National CBRN Committee in Kenya, an OPCW Associate, a member of OPCW's Advisory Board on Education and Outreach (ABEO) and an IUPAC Associate Member. Through KCS, Dr. Aluoch has implemented several Chemical Security improvement projects involving industry, academia and emergency first responders. Dr. Aluoch is also a founding member and the current Vice Chairman of Biorisk Management Association of Kenya (BMAK) and a past Chairman of the National Biological Weapons and Toxins Committee (NBTWC) which is Kenya's Biological Weapons Committee (BWC) Focal Point. He trained and received a certificate in Dual-Use Biosecurity Education from the University of Bradford (UK).

## **Mr. Thomas in der Weide, Germany**

Thomas in der Weide started his career in July 1989 as a Process Safety expert at TUV Hessen in Frankfurt, Germany. In July 1992 he moved to Schering AG, Germany as a Process Safety expert in the Technology Coordination department of their Bergkamen plant. He became Head of Schering AG's Norm and Statute Implementation department in September 1995. In September 2003, Thomas became Head of the Waste Incineration Plant for Schering AG's Bergkamen Material and Waste Management plant.



In September 2006, Thomas moved to Bayer Schering Pharma AG in Bergkamen where he became Head of their Health Safety and Environment department. Since October 2015 he became a trainer in Behavior Based Safety at Bayer Schering Pharma AG.

Thomas is currently the Head of Health, Safety and Environment (HSE), Product Supply, Pharmaceuticals at Bayer AG in Bergkamen, Germany. He has extensive expertise in Plant and Process safety, waste treatment as well as Occupational Health and Safety.

## **Prof. Fabian Benzo (MSc.), Uruguay**

Fabian Benzo is Uruguayan born and obtained his bachelor's degree in chemistry at the Faculty of Chemistry of the Universidad de la República (Uruguay). He did his master's thesis at the Universities of Leipzig (Germany), Barcelona (Spain) and La Plata (Argentina). His training on Occupational Health & Safety started in 1998 and includes both management and operational aspects. In 2007 Fabian became an IUPAC STP Fellow by participating as a STP Fellowship trainee hosted at the Safety Health & Environmental department at Mitsui Chemicals (Japan), sponsored through the IUPAC-UNESCO-UNIDO STP.



His academic experience started in 1992 as a teacher of inorganic chemistry at the Faculty of Chemistry of the Universidad de la República (Uruguay). In 1997 Fabian was appointed as Head Professor of the Safety Department, which he developed until 2013, when the Integrated Systems Department (QSHE areas) was created becoming its Director and Professor. In 2016 and 2018, as an STP Fellow, Fabian directed the IUPAC-UNITAR STP-LA Regional STP training program for Latin American STP Associated Fellows. Since 2017 he has been Academic Director of the Occupational Safety and Health Specialization postgraduate program also at the University in Uruguay.

Professionally, Fabian's main activities include, being International Consultant for Latin America on GHS for UNITAR, UNIDO, UNDP and ILO, advisor for the HAZMAT Group of the National Fire Department and consultant for chemical and pharmaceutical companies. During this time, he also achieved a number of other accomplishments, being the author of a book, a number of chapters in manuals, he published 10 papers and co-authored the INFOLAB© software. He has been invited to lecture in over 50 conferences around the world. He was also president of the Cloister of the Faculty of Chemistry during the 2002-2004 and 2004-2006 periods.

## **Christine Abey Ashaolu (MSc.), Nigeria**

Christine Ashaolu is a graduate of Applied and Analytical Chemistry and recipient of the Academic Prize awards for Chemistry at both bachelor and master's level. She is a skilled Inspector and Regulator, a result driven professional that has built a distinguished career as a Chief Regulatory Officer with the National Agency for Food and Drug Administration and Control (NAFDAC), a Premier organization in Africa, established for the Regulation and Control of Chemicals, Food, Drugs and other regulated products with whom she has worked for close to two decades now. She was also two term recipients of the National staff Merit Awards and pioneer of the chemical inspection (Safety) unit in the country's capital.



Over the years, she has acquired unparalleled experience and expertise in the key areas of chemical Inspections, Regulations, Control, Safety, Security, Surveillance/monitoring and Enforcements. She has also conducted life webinar presentations, workshops, professional meetings, media programs (radio and televisions), developed safety flyers/brochures, Emergency Response Plans, Incident Reporting formats, Community outreach etc. towards Sound Management of Chemicals

The 2015 experience obtained during her STP Fellowship training hosted by National Silicates in Canada and the United States, becoming an IUPAC STP Fellow, no doubt contributed immensely to Christine's achievements in the areas of Chemical and Environmental Safety Protocols.

She is an Associate-of the Organization for the Prohibition of Chemical Weapons (OPCW-Netherland), and other professional societies. She is currently conducting a postgraduate research at the University of Barcelona and University of Algarve on Chemical Innovation and Regulation with focus at developing strategies for safety control of Pesticides towards environmental sustainability in Nigeria.

## **Gracia María Romero (MSc.), Honduras**

Gracia Romero graduated in Chemical Sciences and Pharmacy at the National Autonomous University of Honduras in 2013. She was a laboratory technical assistant of Physical Chemistry at NAUH in 2014. She obtained a master's in synthetic and industrial chemistry at the University of Valladolid, Spain in 2015. Her thesis research at the Center for Innovation in Chemistry and Advanced Materials (CINQUIMA) of the University of Valladolid was on "The Synthesis of gold Carbenes (I) and the study of their mesogenic properties".



In 2015 Gracia became a Professor of Inorganic Chemistry in the Faculty of Chemical Sciences and Pharmacy, National Autonomous University of Honduras and is also currently the Coordinator of the Dimension of Internationalization of Higher Education. She participated in the 2018 8th International Training Programme for Developing Countries on Laboratory Quality Management Systems in New Delhi, India. She also participated in the Interpretation of the ISO 9001: 2015 Risk management course at the Latin American Institute of Quality, Guatemala (INLAC).

Gracia was a participant in Prof. Fabian Benzo's IUPAC-UNITAR STP-LA2 Regional STP training program in Montevideo, Uruguay in 2018, becoming an STP Associate Fellow.

## **Natiela Beatriz de Oliveira (MSc.), Brazil**

Natiela de Oliveira graduated in biological sciences from the University of Brasilia and with a master's degree in animal biology (toxicology) at the University of Brasilia. She is currently a technical consultant on the team of the Health Surveillance of Populations Exposed to Chemical Substances (Vigipeq), General Coordination of Environmental Health Surveillance (CGVAM), Department of Environmental Health, Worker and Health Emergency Surveillance (DSASTE), the Secretary of Surveillance (SVS), of the Ministry of Health, Brazil. Natiela has expertise in Environmental Health Surveillance working mainly in the following subjects: Toxicology and Collective Health. As part of the Vigipeq team, she helps identify the actions of team planning, according to the Chemicals Road Map published by the World Health Organization (WHO) and proposes new actions that could strengthen the management in chemical safety by the Brazilian health sector.



Natiela was a participant in Prof. Fabian Benzo's IUPAC-UNITAR STP-LA2 Regional STP training program in Montevideo, Uruguay in 2018, becoming an STP Associate Fellow.

## **Dr. Robert Audette (FCIC), Canada**

Robert Audette has over 45 years of expertise in chemistry. He graduated from the University of Saskatchewan in 1971 with a Ph.D. in analytical inorganic chemistry and from 1973 worked as a forensic chemist in the Royal Canadian Mounted Police (R.C.M.P.) Forensic Laboratory in Edmonton, Alberta. In 1979, he became Assistant Director and Provincial Analyst at the Alberta Government's "Toxicology, Provincial Analysts Laboratory". In 1985 he was appointed Co-Head of the Toxicology, Therapeutic Drug Monitoring Laboratory at the University of Alberta Hospitals and in 1992 he established the Trace Elements/Environmental Toxicology Laboratory. He held appointments as Medical Staff, University of Alberta Hospital as well as Associate Clinical Professor, Faculty of Medicine, University of Alberta where he taught medical students and undergraduate laboratory medicine technologists. Dr. Audette was made a Fellow of The Chemical Institute of Canada in 1993.



Robert has specialized in over 30 collaborative research projects both in the forensic, clinical and public health fields and he has over 70 publications to his credit. Dr. Audette has delivered over 80 scientific and technical papers, workshops and posters encompassing areas of forensic chemistry, veterinary toxicology, clinical toxicology, public health and ISO laboratory quality management system standards.

Robert semi-retired in 2001 and has spent his career supporting laboratory safety and quality management systems in chemical laboratories. He is an independent consultant with over 35 years' expertise as a Senior Technical Assessor in ISO/IEC 17025, 17043 and 17034 laboratory accreditation programs for the Standards Council of Canada as well as A2LA in the USA and Internationally. He is currently a Titular Member of COCI and the Coordinator of the STP